RNET ERP(Material Request, Safety Module)

Adarsh Pawar(22MCA046) Vivek Santani(22MCA053)

Guided By: Prof. Rajan Datt

Institute of Technology, Nirma University

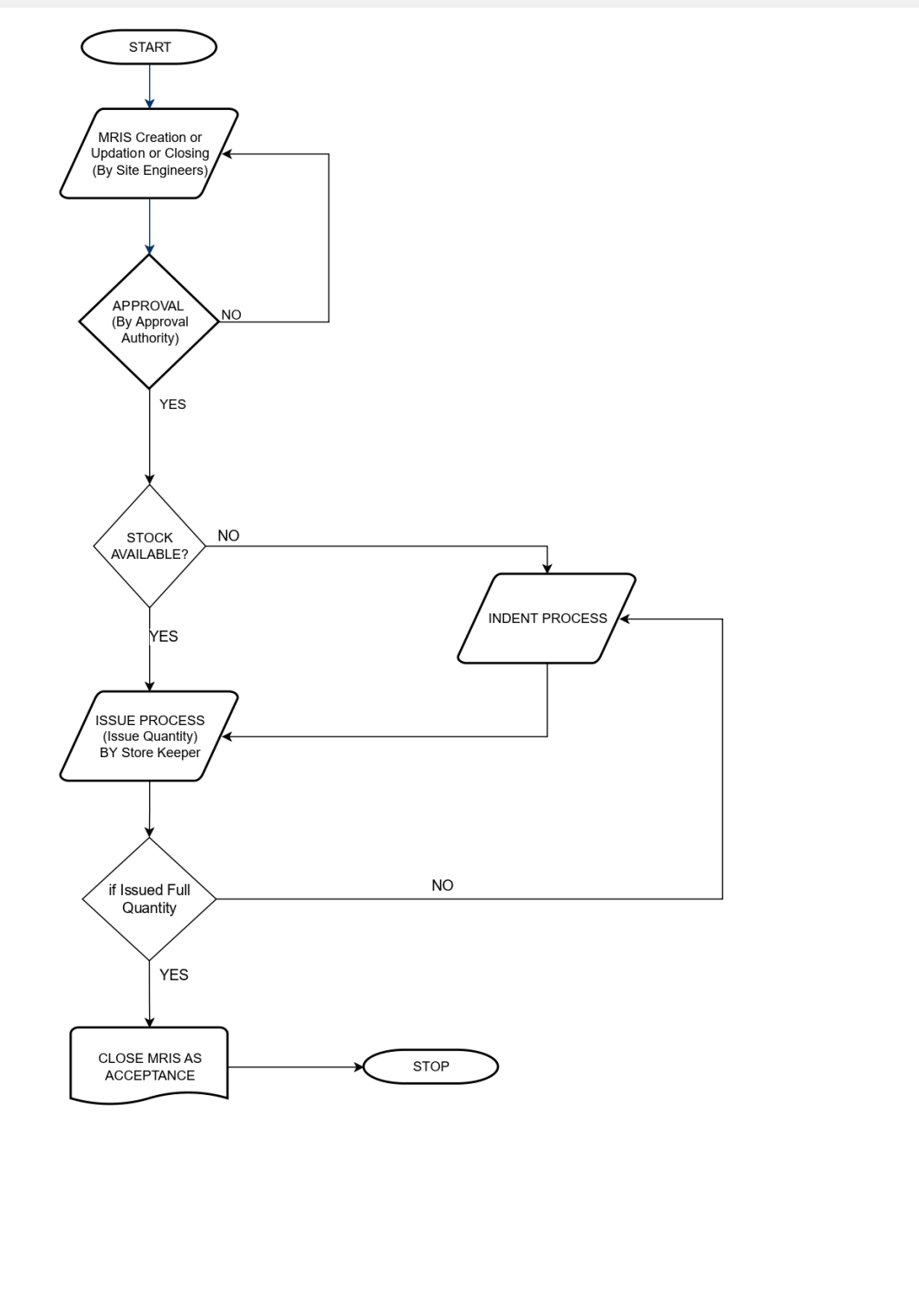Riviera Infraprojects Pvt. Ltd

Riviera Infraprojects

Introduction

The project aims to develop and enhance an in-house ERP system tailored to the specific needs of Riviera Infraprojects, a leading infrastructure development company. The ERP system serves as a comprehensive solution to streamline resource management, optimize operational efficiency, and facilitate informed decision-making across various departments and functions within the organization.

Tools and Technologies

- Technology Stack:
  - Frontend: Next.js, Typescript
  - Backend: Asp.net Core 6, C
  - Database: PostgreSQL
- Software Tools:
  - Just In Mind (Wireframe Design Tool)
  - Visual Studio Code (Text Editor for frontend).
  - Visual Studio 2022 (SDE for backend).
  - PgAdmin (For accessing the database).
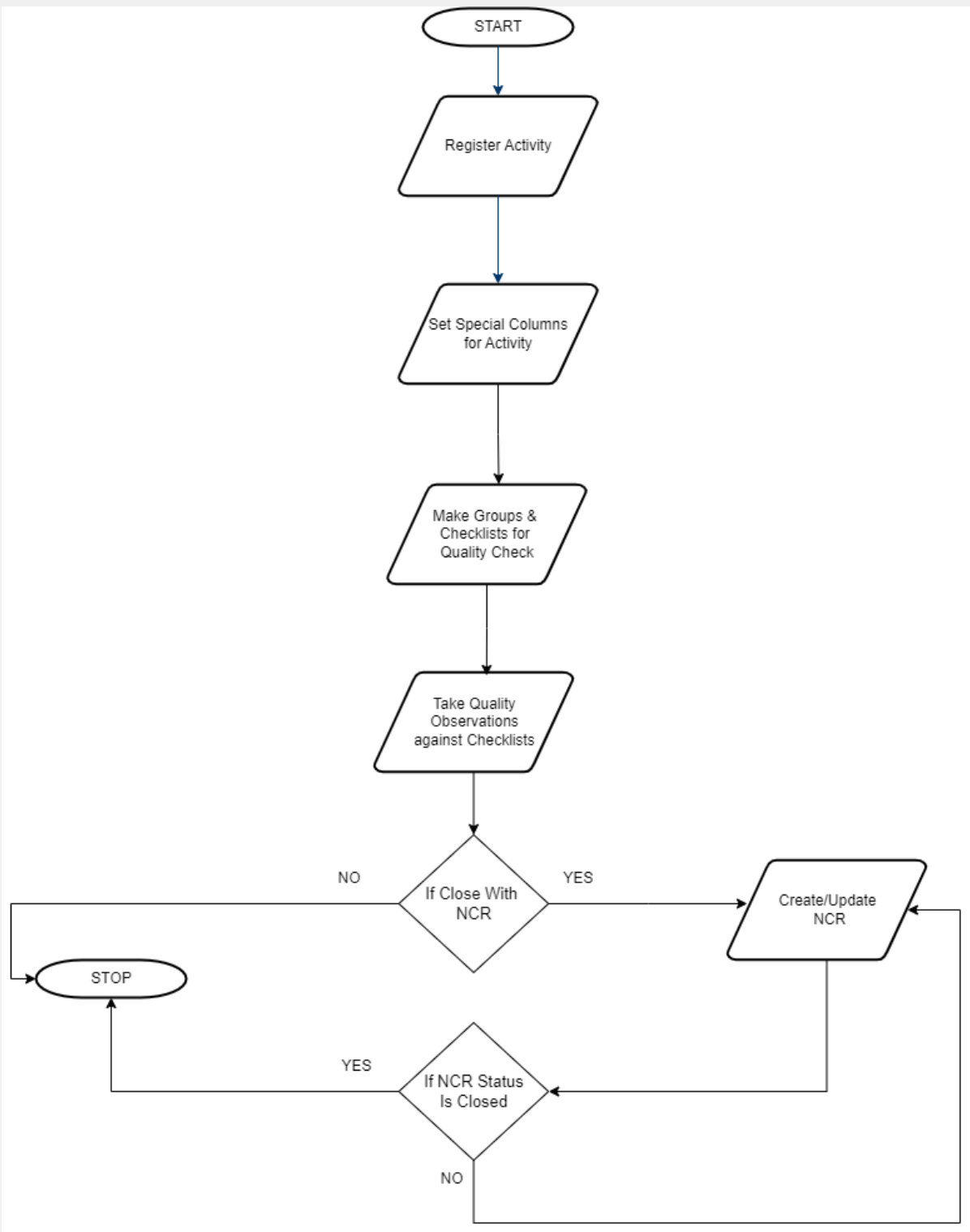 - Postman (For testing APIs).

Objective

- The purpose is to efficiently develop multiple components within the existing under-development system.
- Collaboration with the assigned development team under the guidance of the project guide.
- The components that are in the scope of the project are the Material Request and Safety module.
- The major objective is to Streamline resource management, optimize operational efficiency, and reduce wastage through an in-house ERP tailored to Riviera Infraprojects' needs.
- Decrease reliance on external ERP products by integrating necessary functionalities within the system, ensuring consistency, and establishing standardized procedures.

Scope

- Efficient development of multiple components within the existing underdevelopment system.
- Implement enhancements and updates to the ERP system based on feedback and evolving business requirements.
- Ensure the ERP system remains aligned with Riviera Infraprojects' goals and objectives over time.
- Collaboration with the assigned development team under the guidance of the project guide.
- The components that are in the scope of the project are Material Request and Weighbridge Integration.

Flowchart(Material Request)

Flowchart(Safety Module)

Conclusion

- In conclusion, during our Internship period at Riviera Infraprojects Pvt. Ltd, we efficiently developed multiple components within the existing underdevelopment system i.e Material Request and Safety Module
- With the development of these components, the business can now easily streamline the Material Request and Safety-Checking process at various sites through RNET ERP, eliminating the use of old third-party ERP and paperwork.

Future Enhancement

- Integration with Business Intelligence (BI) Tools
- Advanced Data Analytics Features
- Development of Mobile Application
- User Feedback and Iterative Development